

What is claimed is :

1. A stereo microscope comprising: a hollow elongated body having opposite ends and enclosing first and second optical paths extending through said microscope, one of said ends having two oculars, each including an ocular lens assembly, a prism assembly in each optical path adjacent each ocular, a lens magnification changer rotatably mounted about an axis and located intermediate the ends of said microscope, a first series of bores located about the periphery of said lens magnification changer in a common plane and extending diametrically through said lens magnification changer, a second series of bores located about the periphery of said lens magnification changer in a common plane and extending diametrically through said lens magnification changer, a third series of bores located about the periphery of said lens magnification changer in a common plane and extending diametrically through said lens magnification changer, said second series of bores being axially located between said first and third series of bores of said lens magnification changer, said bores of said first and third series each including a lens assembly, the other of said ends of said hollow elongated body including an objective lens.

2. A stereo microscope as set forth in claim 1, further including a lens assembly located in at least one of said second series of bores.

3. A stereo microscope as set forth in claim 2, further comprising: a camera located in said hollow elongated body between said two oculars and said lens magnification changer and in line with one of said second series of bores.

4. A stereo microscope as set forth in claim 1, further comprising a camera located in said hollow elongated body between said two oculars and said lens magnification changer and in line with one of said second series of bores.

5. A stereo microscope as set forth in claim 1, further comprising a light source located adjacent said objective lens in the other of said ends of said hollow elongated body.

6. A stereo microscope as set forth in claim 5, wherein said light source is either one or a group of LEDs.

8. A stereo microscope as set forth in claim 7, further comprising a wall ceiling or vertical support mount, an adjustable arm attached at one end to said support mount and at an opposite end to said stereo microscope for supporting and positioning said stereo microscope, an attachment connecting said stereo microscope to the head of an operator.

9. A stereo microscope as set forth in claim 4, wherein said first and second optical paths extend through said microscope and are located in a plane common to each path throughout said hollow elongated body.

10. A stereo microscope as set forth in claim 6, wherein said first and second optical paths extend through said microscope and are located in a plane common to each path throughout said hollow elongated body.

11. A stereo microscope as set forth in claim 9, including means pivotally mounting said oculars in said plane that is common to said first and second optical paths.

12. A stereo microscope as set forth in claim 10, including means pivotally mounting said oculars in said plane that is common to said first and second optical paths.

13. A stereo microscope comprising: a hollow elongated body having opposite ends and enclosing first and second optical paths extending through said microscope, one of said ends having two oculars, each ocular including a lens assembly, a prism assembly in each optical path adjacent each ocular, a lens magnification changer rotatably mounted about an axis and located intermediate the ends of said microscope, a first series of bores located about the periphery of said lens magnification changer in a common plane and extending diametrically through said lens magnification changer, a second series of bores located about the periphery of said lens magnification changer in a common plane and extending diametrically through said lens magnification changer, a lens assembly located in each bore of said first and second series, the other of said ends of said hollow elongated body including an objective lens, a first of said optical paths extending through one of said oculars to one of said prism assemblies, through one of said first series of bores of said lens magnification changer and through said objective lens, a second of said optical paths extending through the other of said oculars to another of said prism assemblies, through one of said second series of bores in said lens magnification changer and through said objective lens, said first and second optical paths being located in a common plane.

14. A stereo microscope as set forth in claim 13, further comprising a light source located adjacent said objective lens in the other of said ends of said hollow elongated body.

15. A stereo microscope as set forth in claim 14, wherein said light source comprises either one or a group of LEDs.

16. A stereo microscope as set forth in claim 15, further including a reflector behind said light source and a pivotally mounted light filter in front of said light source.

17. A stereo microscope as set forth in claim 13, including means pivotally mounting said oculars in said plane that is common to said first and second optical paths.

18. A stereo microscope as set forth in claim 16, further including a wall ceiling or vertical support mount, an adjustable arm attached at one end to said support mount and at an opposite end to said stereo microscope for supporting and positioning said stereo microscope, an attachment connecting said stereo microscope to the head of an operator for positioning of the stereo microscope by the head of an operator.

19. A stereo microscope as set forth in claim 13, including a beam splitter in one of said lines of sight to allow one portion of light to pass from said objective lens to one of said oculars and to reflect another portion of light to a camera located exterior of said hollow elongated body.

20. A stereo microscope as set forth in claim 15, including a beam splitter located in one of said lines of sight to allow one portion of light to pass from said objective lens to one of said oculars and to reflect another portion of light to a camera located exterior of said hollow elongated body.